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WHAT IS CLAIMED IS:

1. A thin film semiconductor device comprising:

an insulating substrate; and

a thin film transistor formed on said insulating substrate, wherein said thin film transistor is formed in a bottom gate structure having gate electrode, a gate insulating film, and a semiconductor thin film stacked in the order from below upward, and

said gate electrode is made of metallic material having a 10 thickness of less than 100nm.

2. The thin film semiconductor device according to Claim 1, wherein

said gate insulating film has a thickness thicker than the thickness of said gate electrode.

3. The thin film semiconductor device according to Claim 1, wherein

said semiconductor thin film comprises polycrystalline silicon crystallized by an irradiation of a laser beam.

4. The thin film semiconductor device according to Claim 1, wherein

said gate electrode has a multi-layered structure stacked with an upper layer having comparatively low heat conductivity and high electric resistance, and a lower layer having comparatively high heat conductivity and low electric resistance.

5. A display device comprising: an insulating substrate; pixels arranged in a matrix form; and

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thin film transistors for driving said respective pixels, wherein said pixels and said thin film transistors are formed as integrated circuits on said insulating substrate,

each of said thin film transistors has a bottom gate structure having a gate electrode, a gate insulating film and a semiconductor thin film stacked in the order from below upward, and

said gate electrode is made of metallic material having a thickness of less than 100nm.

- 6. The display device according to Claim 5, wherein said gate insulating film has a film thickness thicker than the thickness of the gate electrode.
- 7. The display device according to Claim 5, wherein said semiconductor thin film comprises polycrystalline silicon crystallized by an irradiation of a laser beam.
 - 8. The display device according to Claim 5, wherein said gate electrodes have a multi-layer structure stacked with an upper layer having comparatively low heat conductivity and high electric resistance, and a lower layer having comparatively high heat conductivity and low electric resistance.
- 9. The method of manufacturing a display device having pixels arranged in a matrix form and thin film transistors for driving said respective pixels formed as integrated circuits on an insulating substrate, said method comprising the step of:

stacking a gate electrode, a gate insulating film and a semiconductor thin film in the order from below upward on an insulating substrate to form a thin film transistor in bottom gate structure, wherein

said gate electrode formed of metallic material has a thickness of

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less than 100nm.

- 10. The method according to Claim 9, wherein
 said gate insulating film is formed with a thickness thicker than
 the thickness of the gate electrode.
 - 11. The method according to Claim 9 wherein said semiconductor thin film uses polycrystalline silicon crystallized by an irradiation of a laser beam.

12. The method according to Claim 9, wherein said gate electrode is formed by stacking an upper layer having comparatively low heat conductivity and high electric resistance and a lower layer having comparatively high heat conductivity and low electric resistance.